(No Model.)

J. GRAMS.

NOZZLE HOLDER.

No. 414,881. Patented Nov. 12, 1889.

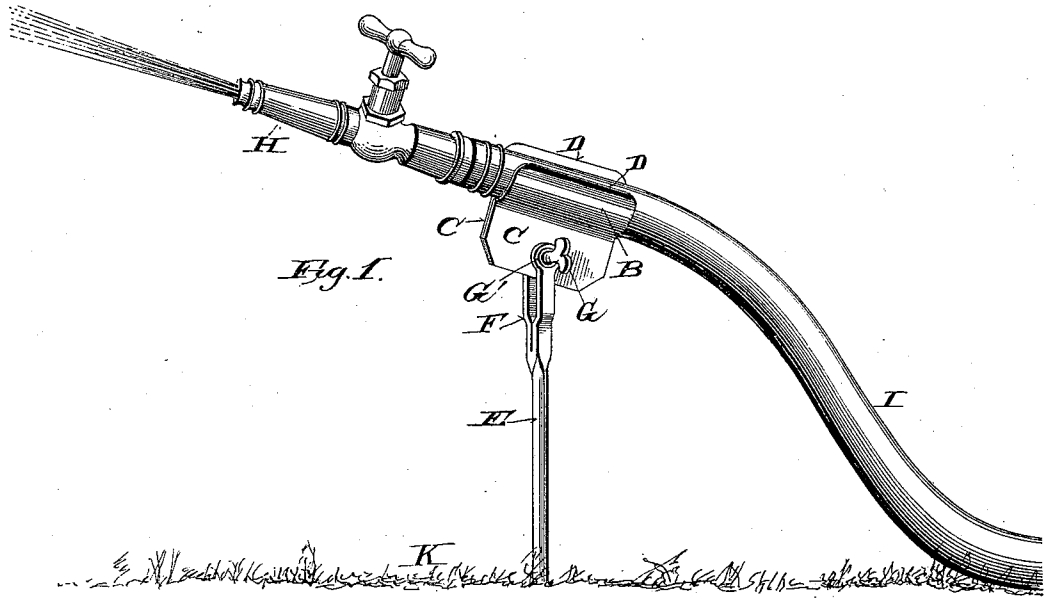


Fig. 1.

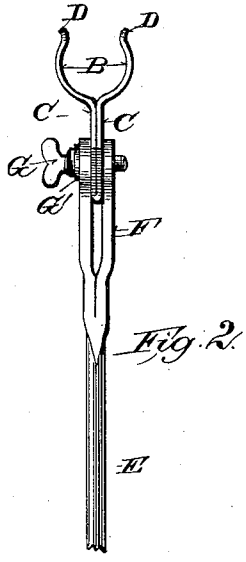


Fig. 2.

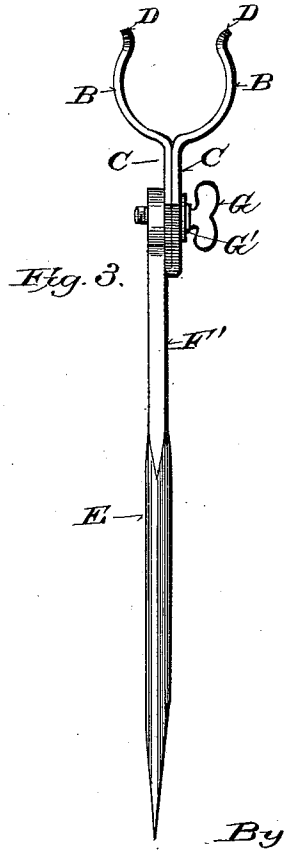
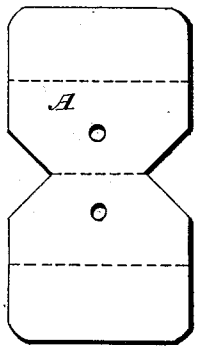


Fig. 3.

Fig. 4.



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UNITED STATES PATENT OFFICE.

JOHN GRAMS, OF LA CROSSE, WISCONSIN.

NOZZLE-HOLDER.

SPECIFICATION forming part of Letters Patent No. 414,881, dated November 12, 1889.

Application filed August 12, 1889. Serial No. 320,448. (No model.)

To all whom it may concern:

Be it known that I, JOHN GRAMS, of La Crosse, in the county of La Crosse and State of Wisconsin, have invented a new and useful Nozzle-Holder; and I do hereby declare the following to be a full, clear, and exact description of said invention, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

The object of my invention is particularly to provide a device which is adapted for supporting the nozzle of a lawn-hose when used for sprinkling lawns, the device being so constructed as to be capable of supporting the nozzle near to or at a distance from the ground, and is adapted for such adjustment as to turn the stream horizontally or at any angle thereto up or down, and also is capable of such adjustment that the stream may be directed in any desired direction, either to right or left, or directed to the front.

Figure 1 is a perspective view of my complete device, showing it set in the ground and in use in connection with the nozzle of a lawn-sprinkling hose. Fig. 2 is a view of the upper portion of my device, showing the edge of the device. Fig. 3 is a modified form of the head of the spindle in connection with the gripping device. Fig. 4 is a view of the blank as cut from sheet-iron, of which the gripping device is constructed.

The blank A, which is afterward swaged into the gripping device, is preferably cut in the form shown in Fig. 4, from a piece of thick sheet metal, and is then swaged into the form shown in Figs. 1, 2, and 3, in which there are two flat opposing shanks C C, extending outwardly and being curved into the jaws B B, which preferably terminate in the recurved edges D D. The gripping device is supported on a spindle E, the lower end of which is pointed, so as to be readily forced into the ground, and the upper end terminates in a bifurcated head F, in which the shanks C C of the gripping device are inserted and held by a thumb-screw G, passing through the head and through the shanks C C. The thumb-screw is provided with a shoulder G′, which is adapted to bear against the head F on one side, and is provided with a screw-thread which turns into the head F on the other side of the shanks C C, whereby the shanks may be drawn tightly together, so as to be held rigidly in the spindle E and at the same time to grip the hose I near the nozzle H, holding it firmly in position in the gripping device.

It will be understood that the hose I is sufficiently flexible that the nozzle may be raised or lowered from the ground K by merely withdrawing the spindle somewhat from the ground or forcing it deeper therein, and also that the nozzle may be turned in any direction by turning the spindle E to right or left in the ground, and that the angle of the nozzle may be elevated or lowered by tilting the gripping device in the spindle, the gripping device being sufficiently released from its rigid position in the spindle by turning the thumb-screw G therefor. The hose, while sufficiently flexible to permit of the adjustment of the nozzle in any direction, is still stiff enough to support the nozzle in such direction as it is turned by the nozzle-holder.

The gripping device being formed of one piece of metal is preferably so constructed that the jaws B B and also the shanks C C stand normally yieldingly somewhat apart from each other more than is necessary to encompass the hose, whereby when not drawn forcibly together the hose may be readily inserted within or removed from the jaws, and that the jaws are closed together upon the hose by turning the thumb-screw into the head F, whereby the shanks C C are brought together and the jaws B B are made to grip the hose tightly.

In the modified form of spindle shown in Fig. 3 the head F′ is not bifurcate, but consists of a single stem to which the gripping device is secured by the thumb-screw G passing through the shanks C C and turning into the head F′, the shoulder G′ bearing against the outer surface of a shank C.

What I claim as new, and desire to secure by Letters Patent, is—

1. The combination of a spindle and a gripping device consisting of two jaws formed from sheet metal and so curved as to grip a hose, the jaws being held adjustably to the spindle by a thumb-screw passing through the shanks

of the gripping device and turning into the head of the spindle, substantially as described.

2. The combination, with a spindle E, of a sheet-metal gripping device formed in a single piece having flat opposing shanks C C and outwardly-curved opposing jaws B B, and a thumb-screw G, passing through the shanks C C and turning into the head of the spindle, whereby the gripping device is secured adjustably to the spindle, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

JOHN GRAMS.

Witnesses:
W. J. HICKISCH,
CHARLES E. SERVIS.